TOWMASTER®
TRAILERS

# Air-Pin Detachable Gooseneck
# Operations Supplement

# TOWMASTER WARRANTY SUMMARY

This warranty effective on trailers manufactured after 01/01/2009.

Towmaster, Inc. (herein referred to as Towmaster) offers this extensive warranty to the original purchaser of our trailers. Warranty starts from the date of sale as long we receive the filled-out warranty card. If we do not receive the warranty card, warranty starts from the ship date of the unit.

**LIMITED LIFETIME FRAME WARRANTY**
Towmaster warranties the trailer main frame (frame, crossmembers, gussets, beavertail, and tongue or gooseneck) for the lifetime of the trailer to the original licensed owner to be free from defects in material and workmanship. This LIFETIME WARRANTY does not cover the hitch (ball, pintle, and gooseneck fifth wheel), tires, wheels, axles, suspension, ramps, lights, wiring, paint, wood, d-rings or any other features or options outside the scope of the trailer main frame weldment. Limited Lifetime is determined by the following criteria: The life expectancy of the trailer which is determined to be 10 years on tag trailers 50,000 lb. capacity and lower, or 5 years on king-pin trailers 50,000 lb. capacity and up, to the original owner and is non-transferrable, limited to the first accident or overloading. This warranty also does not cover:

1. Products which have been operated in excess of rated capacities
2. Misuse, abuse or accidents
3. Vehicles which have been altered, modified or repaired in any manner not authorized by our company

**FIVE-YEAR WARRANTY**
Each Dexter Torflex Axle carries a limited 5-YEAR WARRANTY on the suspension to be free from defect in material and workmanship. Warranty is limited to Dexter warranty policy.

**TWO-YEAR LIMITED WARRANTY**
Depending upon which suspension is used, it may carry a limited 2-YEAR WARRANTY by its manufacturer.

**FULL ONE-YEAR WARRANTY**
Towmaster warranties each new product manufactured by us to be free from defects in material and workmanship for a period of one year from date of delivery to the original purchaser except as noted below.

This one-year warranty covers the entire trailer against material and workmanship except as noted:

1. New products which have been operated in excess of rated capacities
2. Misuse, abuse or accidents
3. Items that have been pinched (air or hydraulic hose)
4. Vehicles which have been altered, modified or repaired in any manner not authorized by our company
5. Second-hand or used vehicles
6. Wear items such as tires, battery, suspension, bearings, parking jacks
7. Products that have not been properly maintained (by the dealer or consumer)

In no way shall the manufacturer be held liable for consequential damages such as rentals of substitute vehicles, loss of profits, downtime, or other commercial losses. This warranty does not cover shipment of trailer or parts to dealer or manufacturer, or return shipment of trailer or parts to dealer or consumer from factory.

**TIRE / BATTERY WARRANTY**
New vehicle tires are warranted by their respective manufacturers and are prorated. Battery is warranted by Towmaster and is prorated.

**TOWMASTER'S OBLIGATION**
Our obligation under this warranty is to repair or replace, at no cost to the end user, any warrantable part proven defective within the time limit of this warranty at our factory or at an Authorized Towmaster Dealer. Towmaster will handle disposition of warranties on all other purchased components such as axles, suspensions, wheels, batteries, parking jacks and other purchased parts in conjunction with their respective manufacturers, and under the terms of their respective warranty policies.

We must receive immediate notification of a defect and no allowance will be made for repairs without our prior consent or approval. Manufacturer does not pre-authorize any dealership for warranty work. The dealer must call our warranty service department to receive an authorization number. If the work performed is not preauthorized with a claim number, it may be deemed void. Defective parts must be returned within twenty days of receipt of replacement parts or credit may not be given for the replacement parts and an invoice may be issued.

This warranty is in lieu of all other warranties, expressed or implied by law or otherwise, and there is no warranty of merchantability or fitness of purpose. Federal regulations require motor vehicle manufacturers to maintain a record of original owners of their equipment. Our warranty registration fulfills this requirement. Please make every effort to complete the warranty card document and send it in. This warranty written under the laws of Minnesota, USA and some provisions in this warranty may be adjusted according to your local state, province or country's laws. Complete warranty details and changes can be read on our web site, www.towmaster.com.

**CUSTOMER REGISTRATION REQUIRED**

Federal regulations require motor vehicle manufacturers to maintain a record of original owners of their equipment. Our warranty registration fulfills this requirement. Please make every effort to complete this document and send it in.

Manufacturer reserves the right to modify, without notice, specific designs and specifications as deemed advisable on the trailers described herein without obligation in regards to trailers previously sold. The manufacturer also reserves the right to discontinue any model or models without obligation in regards to trailers previously sold. Written warranty covers each trailer. No other warranty expressed or implied is made. Tire and brake warranty through original manufacturer. All dimensions approximate.

Full warranty information available online at Towmaster.com.

## A forward from Towmaster to our valued customers.

This manual includes parts and service information for our current Towmaster trailers. We have put forth our best effort to provide you with common operations and replacement part information. However, Towmaster builds many custom trailers for various customers and cannot guarantee that your particular unit's features are outlined in this manual. If you encounter this problem please contact your dealer. If they cannot be of assistance please feel free to call our Parts Department.

To ensure a more productive call have your trailer's VIN number (serial number) ready as that will be needed to locate the correct replacement parts and answer your technical questions. As a reminder, we do not sell most parts directly; we only sell parts through our dealer network. The Team at Towmaster will make every effort to get you up and running and keep your trailer ownership as trouble free as possible.

## Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Towmaster, Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Towmaster, Inc.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 or write to:

NHTSA
U.S. Department of Transportation
400 7th Street SW NSA-11
Washington, DC 20590

You may also obtain other information about motor vehicle safety from www.safecar.gov.

# SECTION I

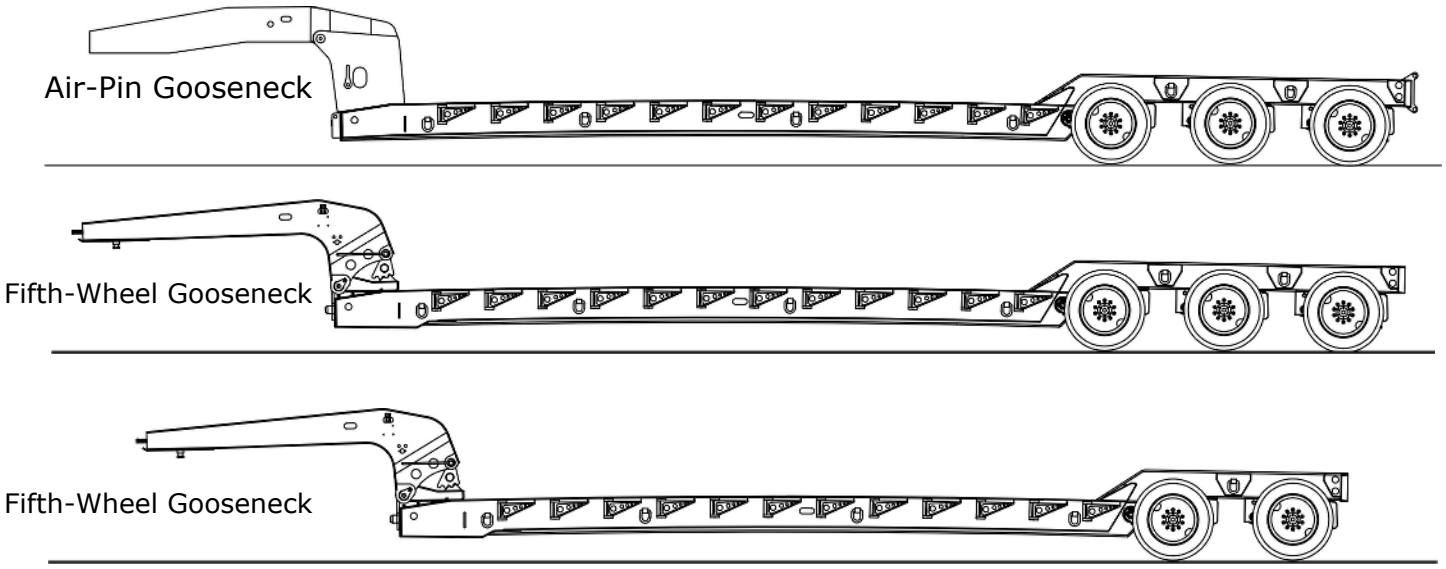
## TRAILER INFORMATION

Trailer and Dealer Information ..... 6

Truck Requirements and Operating Ranges ..... 7

Trailer Terminology ..... 8

# TRAILER INFORMATION




## Trailer Information

| | |
|---|---|
| Model Purchased: | Date Purchased: |
| VIN (serial number): | |
| **Axle Serial Numbers (each axle has its own)** | |
| Axle 1: | Axle 4: |
| Axle 2: | Axle 5: |
| Axle 3: | |

## Dealer Information

| | |
|---|---|
| Dealer: | |
| Address: | |
| Address: | |
| City, State, Zip: | |
| Phone: | Fax: |
| Web Address:: | |

**Please have serial number available for all orders.**

# TRUCK REQUIREMENTS / OPERATING RANGES

Parker Fluid Connectors

P.S.I. - 2,800 to 3,000

G.P.M. - 10 GPM minimum, 25 GPM maximum

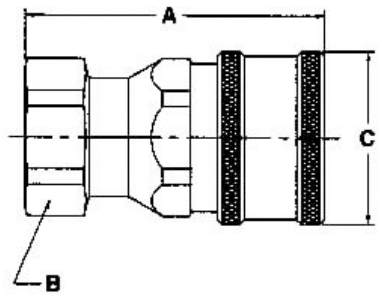
Swing Clearance - See truck dimensions (page 5)

5th Wheel Height - 47" - 52"  See truck dimensions (page 5)

Hydraulic Connections - See below...

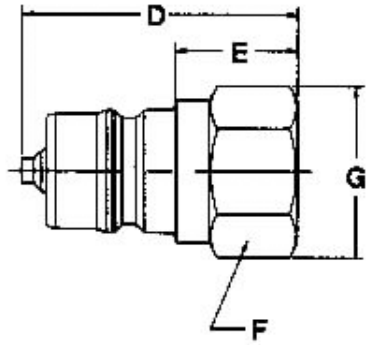
## COUPLER

Towmaster P/N: 37-5972




## NIPPLE

Towmaster P/N: 37-5971

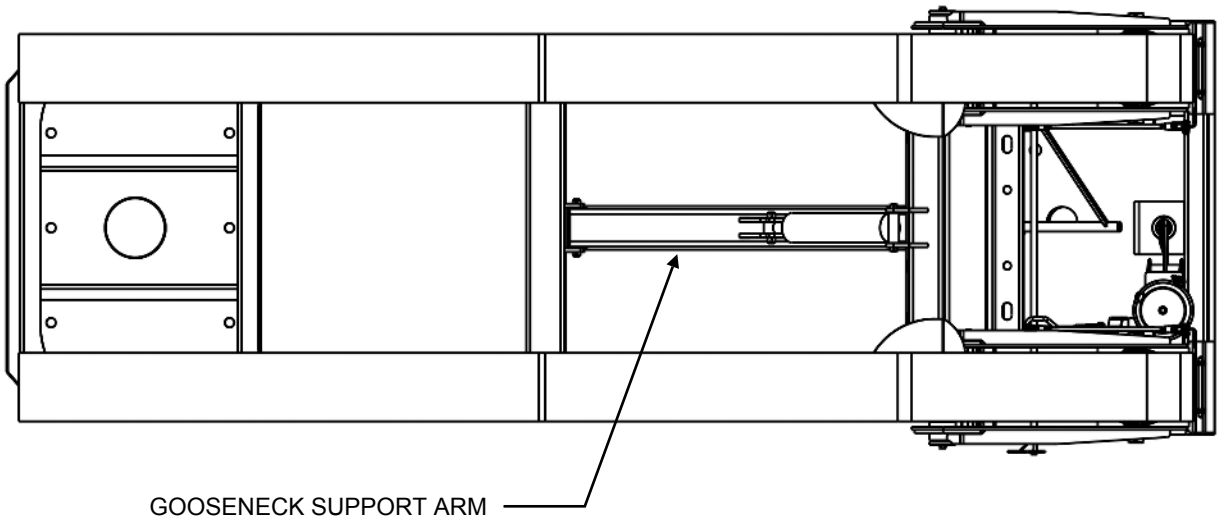


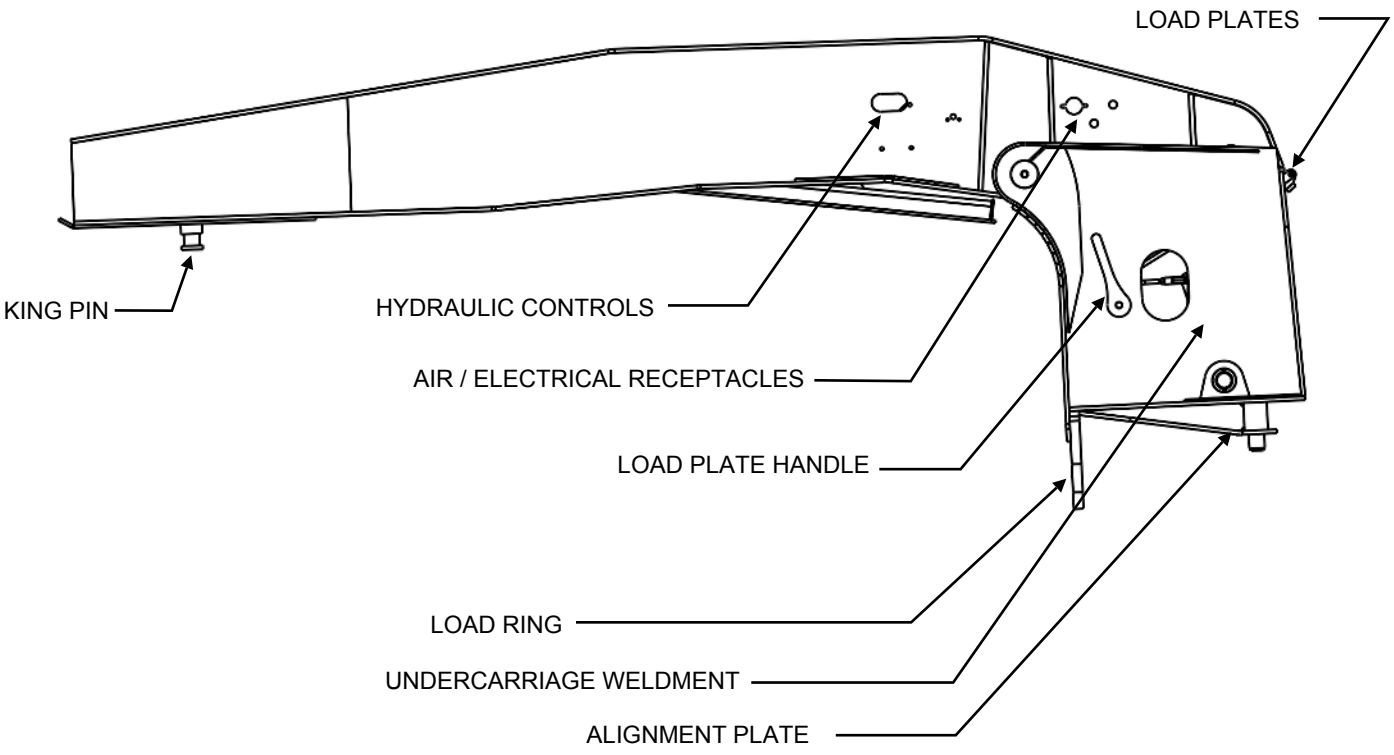

| COUPLER | |
|---|---|
| BODY SIZE | 3/4 |
| THREAD SIZE (NPTF) | 3/4-14 |
| DIM. A | 3.36 |
| DIM. B | 1.62 |
| DIM. C | 1.90 |

| NIPPLE | |
|---|---|
| BODY SIZE | 3/4 |
| THREAD SIZE (NPTF) | 3/4-14 |
| DIM. D | 2.28 |
| DIM. E | 1.18 |
| DIM. F | 1.38 |
| DIM. G | 1.59 |

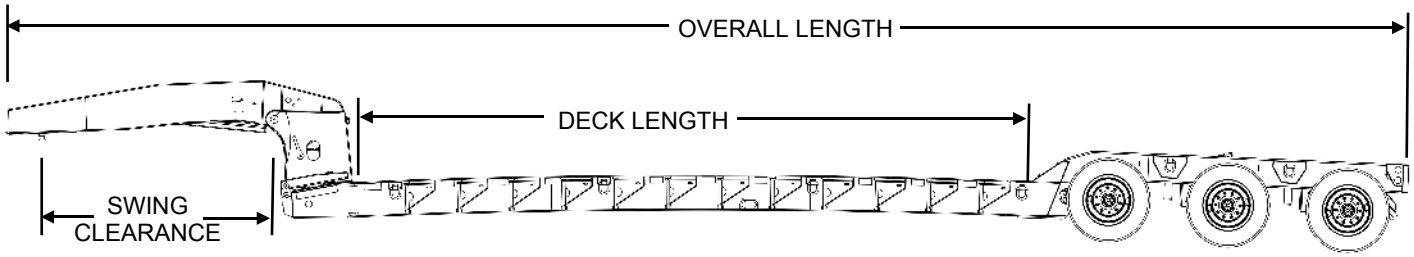
# TERMINOLOGY - AIR-PIN GOOSENECK

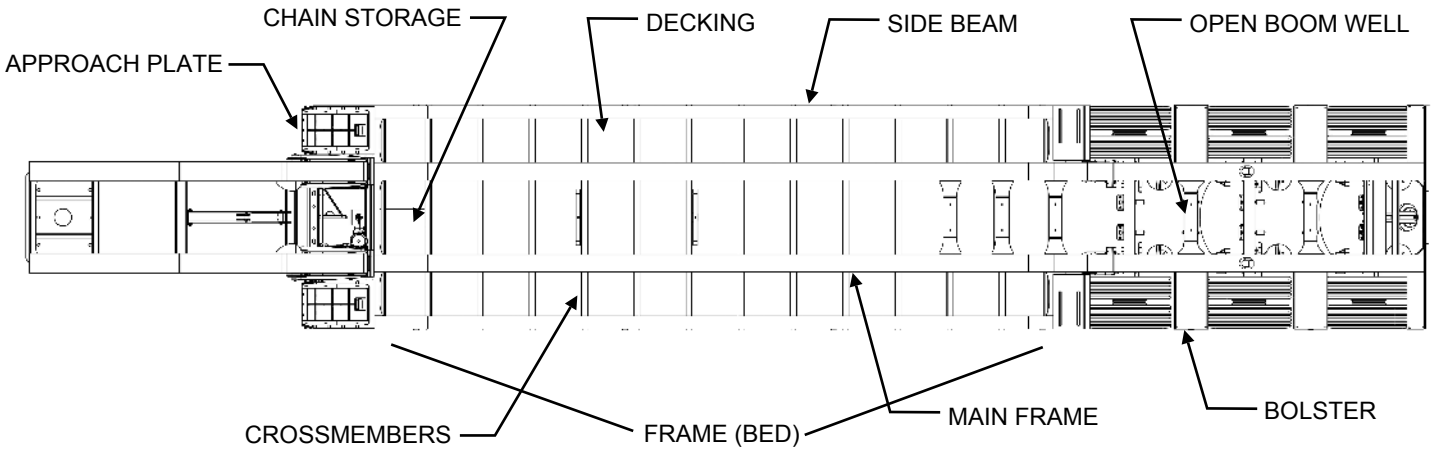
**UPPER GOOSENECK WELDMENT**

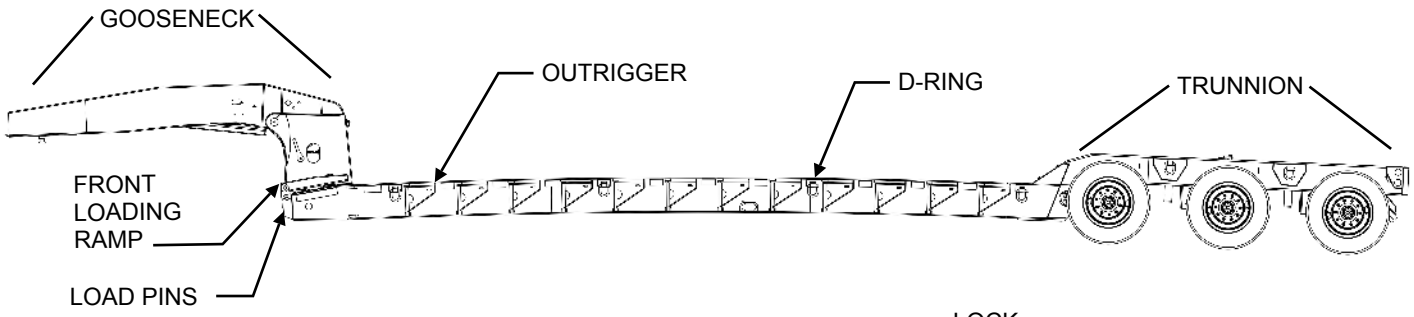


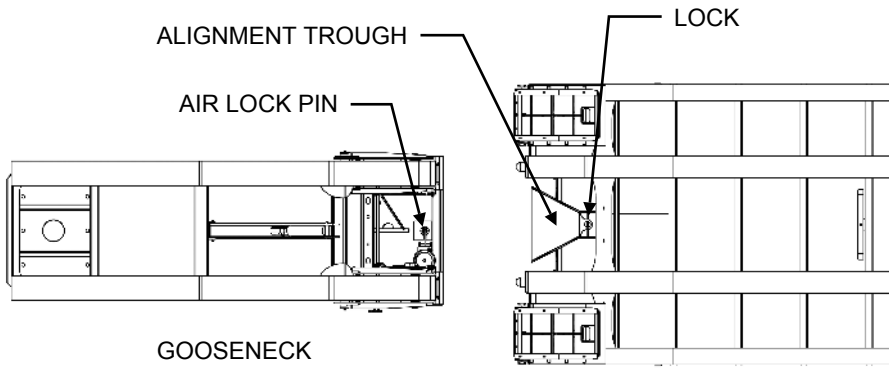



# TERMINOLOGY - AIR-PIN GOOSENECK



# SECTION II

## OPERATIONS

Instruction Overview (Decal) ..... 12

Detaching Gooseneck from Main Deck ..... 13

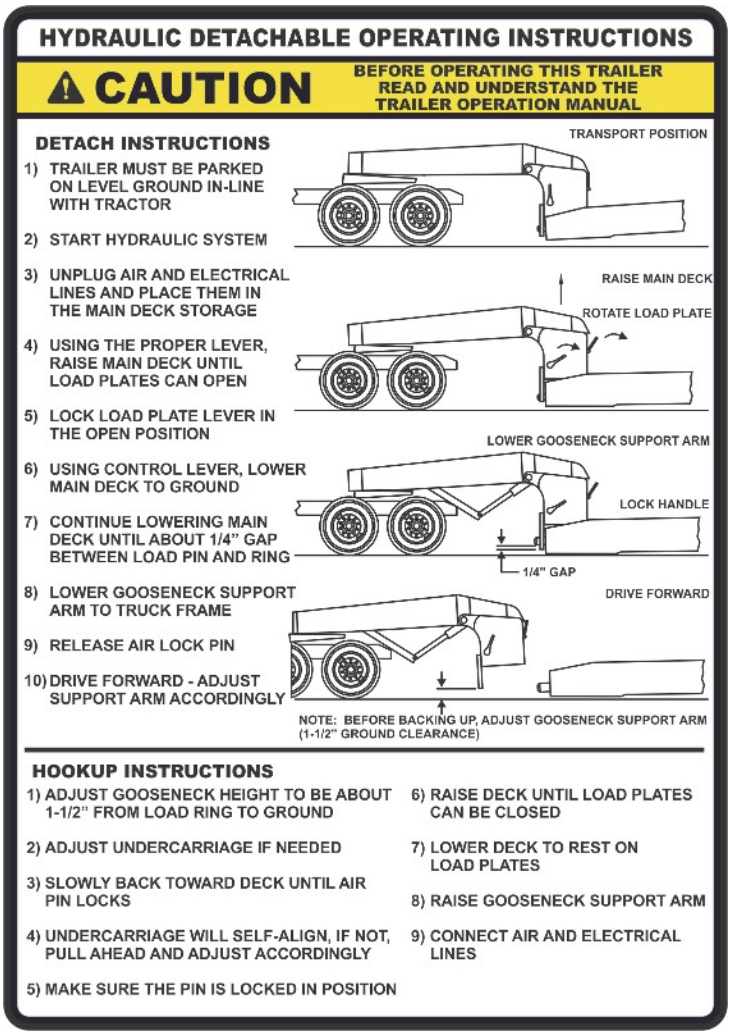
Attaching Gooseneck to Main Deck ..... 16

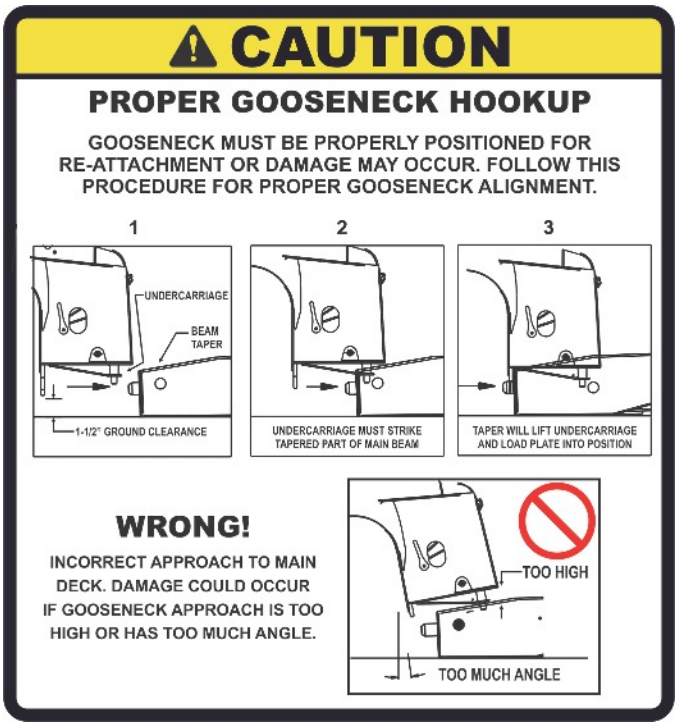
# INSTRUCTION OVERVIEW

These instructions are to help you become familiar with the operation of our product. They are not intended for the purpose of training or to replace common knowledge in operating a detachable gooseneck trailer. Read these instructions before using the Towmaster Detachable Gooseneck trailer.

# INSTRUCTION DECALS

The instructional decals should be affixed to the operating side of the gooseneck on the trailer. If the decals are missing or unreadable, contact our Parts Department for replacements. Read these instructions to familiarize yourself with the operating procedure.


HYDRAULIC DETACHABLE OPERATING INSTRUCTIONS
CAUTION
BEFORE OPERATING THIS TRAILER READ AND UNDERSTAND THE TRAILER OPERATION MANUAL
DETACH INSTRUCTIONS
1) TRAILER MUST BE PARKED ON LEVEL GROUND IN-LINE WITH TRACTOR
2) START HYDRAULIC SYSTEM
3) UNPLUG AIR AND ELECTRICAL LINES AND PLACE THEM IN THE MAIN DECK STORAGE
4) USING THE PROPER LEVER, RAISE MAIN DECK UNTIL LOAD PLATES CAN OPEN
5) LOCK LOAD PLATE LEVER IN THE OPEN POSITION
6) USING CONTROL LEVER, LOWER MAIN DECK TO GROUND
7) CONTINUE LOWERING MAIN DECK UNTIL ABOUT 1/4" GAP BETWEEN LOAD PIN AND RING
8) LOWER GOOSENECK SUPPORT ARM TO TRUCK FRAME
9) RELEASE AIR LOCK PIN
10) DRIVE FORWARD - ADJUST SUPPORT ARM ACCORDINGLY
TRANSPORT POSITION
RAISE MAIN DECK
ROTATE LOAD PLATE
LOWER GOOSENECK SUPPORT ARM
LOCK HANDLE
1/4" GAP
DRIVE FORWARD
NOTE: BEFORE BACKING UP, ADJUST GOOSENECK SUPPORT ARM (1-1/2" GROUND CLEARANCE)
HOOKUP INSTRUCTIONS
1) ADJUST GOOSENECK HEIGHT TO BE ABOUT 1-1/2" FROM LOAD RING TO GROUND
2) ADJUST UNDERCARRIAGE IF NEEDED
3) SLOWLY BACK TOWARD DECK UNTIL AIR PIN LOCKS
4) UNDERCARRIAGE WILL SELF-ALIGN, IF NOT, PULL AHEAD AND ADJUST ACCORDINGLY
5) MAKE SURE THE PIN IS LOCKED IN POSITION
6) RAISE DECK UNTIL LOAD PLATES CAN BE CLOSED
7) LOWER DECK TO REST ON LOAD PLATES
8) RAISE GOOSENECK SUPPORT ARM
9) CONNECT AIR AND ELECTRICAL LINES


CAUTION
PROPER GOOSENECK HOOKUP
GOOSENECK MUST BE PROPERLY POSITIONED FOR RE-ATTACHMENT OR DAMAGE MAY OCCUR. FOLLOW THIS PROCEDURE FOR PROPER GOOSENECK ALIGNMENT.
1
2
3
UNDERCARRIAGE
BEAM TAPER
1-1/2" GROUND CLEARANCE
UNDERCARRIAGE MUST STRIKE TAPERED PART OF MAIN BEAM
TAPER WILL LIFT UNDERCARRIAGE AND LOAD PLATE INTO POSITION
WRONG!
INCORRECT APPROACH TO MAIN DECK. DAMAGE COULD OCCUR IF GOOSENECK APPROACH IS TOO HIGH OR HAS TOO MUCH ANGLE.
TOO HIGH
TOO MUCH ANGLE

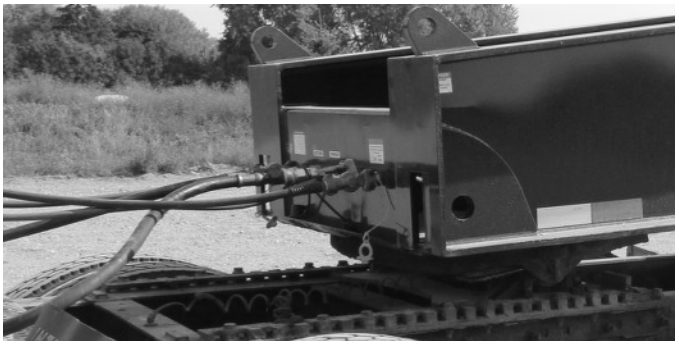
# OPERATION

**IMPORTANT! READ AND UNDERSTAND THIS MANUAL AND ALL SAFETY AND INSTRUCTION DECALS PRIOR TO OPERATING THE TRAILER!**

Operation and safety decals are placed in key areas on the trailer and point out important information and safety factors in those areas. Failure to understand and adhere to this instruction may cause serious injury or death.

Before using the trailer, make sure you are in a safe location and parked on solid ground. Make sure the truck and trailer are in a straight line and on level ground.

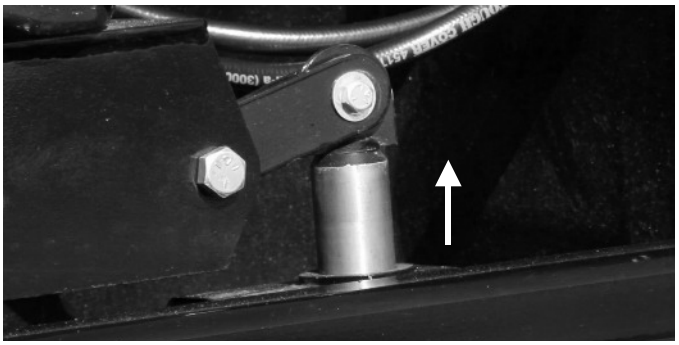
# OPERATION



Start the hydraulic system so that oil is flowing to the gooseneck. If your trailer has the pony motor option, start the pony motor according to the instructions on the pony motor decal.

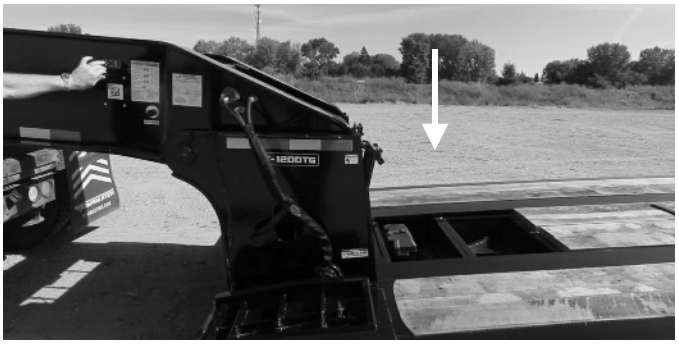
Using the hydraulic control lever, raise the gooseneck until the load plates can be opened.

Open the load plates.



Press the Air-Pin control button to release the Air-Pin Lock.

# OPERATION



Using the control levers again, lower the goose-neck to the ground. Stand clear of the deck.

**⚠ DANGER**

**Stand clear when lowering deck.**

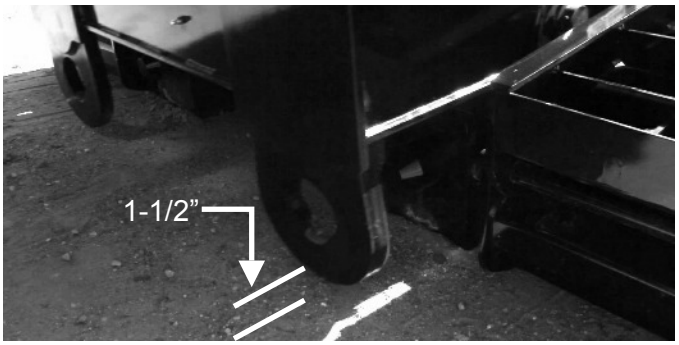
Using the support arm control lever, lower the gooseneck support arm to the tow vehicle. Use enough pressure to support the gooseneck, but not raise it.

Remove the air and electrical lines from the gooseneck to the trailer bed.

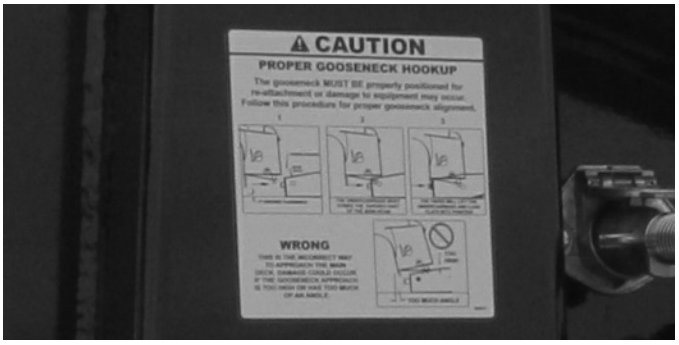
Store them in the storage area at the front of the trailer bed near the front ramp.

# OPERATION

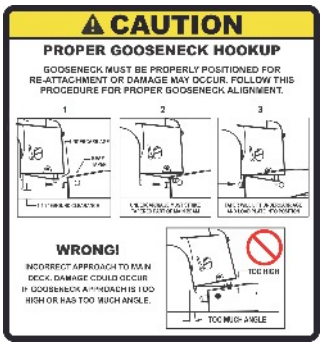
You are now detached from the main deck and ready to drive away.

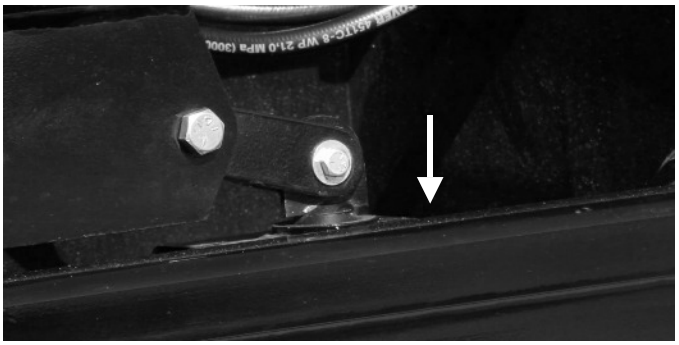



If the gooseneck happens to rest on the ground, it will be important to raise it by lowering the support arm. When you are ready to reattach the gooseneck to the main deck, raise the gooseneck so that the load rings are approximately 1-1/2 inches off the ground.



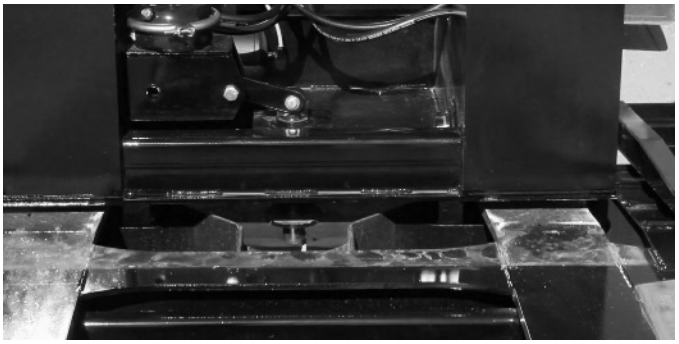

Read the CAUTION decal to make sure the under-carriage is set properly before backing into the main deck or damage may occur.


⚠ CAUTION
PROPER GOOSENECK HOOKUP
GOOSENECK MUST BE PROPERLY POSITIONED FOR RE-ATTACHMENT OR DAMAGE MAY OCCUR. FOLLOW THIS PROCEDURE FOR PROPER GOOSENECK ALIGNMENT.
1
2
3
WRONG!
INCORRECT APPROACH TO MAIN DECK. DAMAGE COULD OCCUR IF GOOSENECK APPROACH IS TOO HIGH OR HAS TOO MUCH ANGLE.
TOO HIGH
TOO MUCH ANGLE

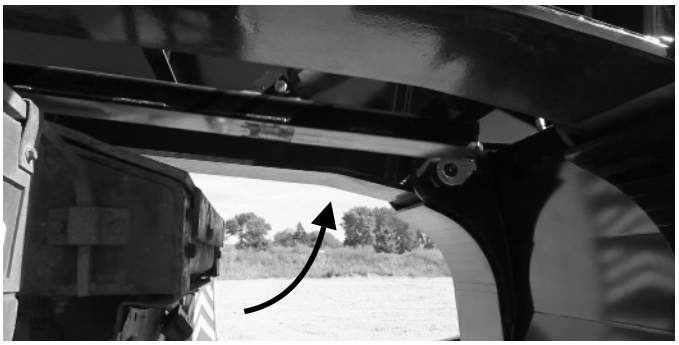


Before backing into the main deck, use the Air-Pin Lock control button to lower the locking pin.

# OPERATION



Back into the main deck with enough force to lock the gooseneck in place.



Using the control lever, lift the gooseneck support arm off the truck frame.

Continue lifting the deck until the support plates can be closed.

If you need a higher transport height for road clearance, you can use the additional load plate spacers.

# OPERATION

Lower the gooseneck until it rests on the load plates.

Connect the electrical and air hoses and you're ready for transport.

61381 U.S. Hwy 12
Litchfield, MN 55355
Parts Dept: 320-593-4595

**towmaster.com**